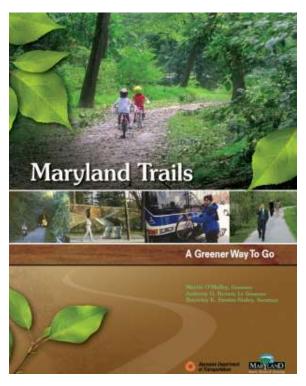


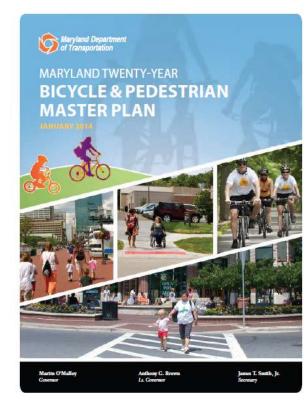
Building Maryland's Biking and Walking Networks

Kate Sylvester

Maryland Department of Transportation

Statewide Plans and Priorities





- Completing Missing Links
- Supporting walking and biking as travel modes
- Supporting community vitality
- Promoting economic development and tourism

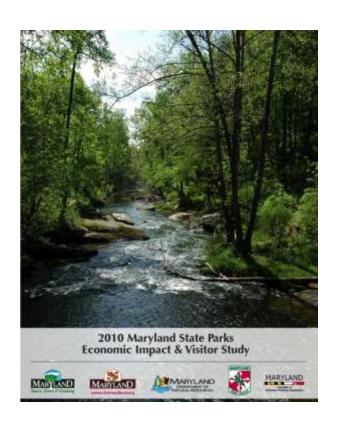


Why?

- **Safety**: Cyclists and pedestrians represent about 20% of Maryland fatal traffic crashes.
- Access: 9.3% of Maryland households do not own a vehicle.
- **Congestion**: Estimated that over 1/3 of trips in Maryland are shorter than 3 miles.
- Affordability and Environment: Transportation accounts for about 15% of household expenditures and over 30% of Maryland's greenhouse gas emissions.
- **Health**: Less than half of Maryland adults reported engaging in recommended levels of physical activity in 2004.

Trail Economic Impacts

- Great Allegheny Passage impact study (2008)
 - \$40.8M direct spending
 - \$7.5 million in annual wages
 - Local trail users spend an average of \$17 each trail use.
 - Overnight visitors spend an average of \$114 a day in trail communities.





Not One Size Fits All





Town Centers

Many destinations

Physically constrained

Competing needs

Shorter trips

Rural Areas

Fewer intersections

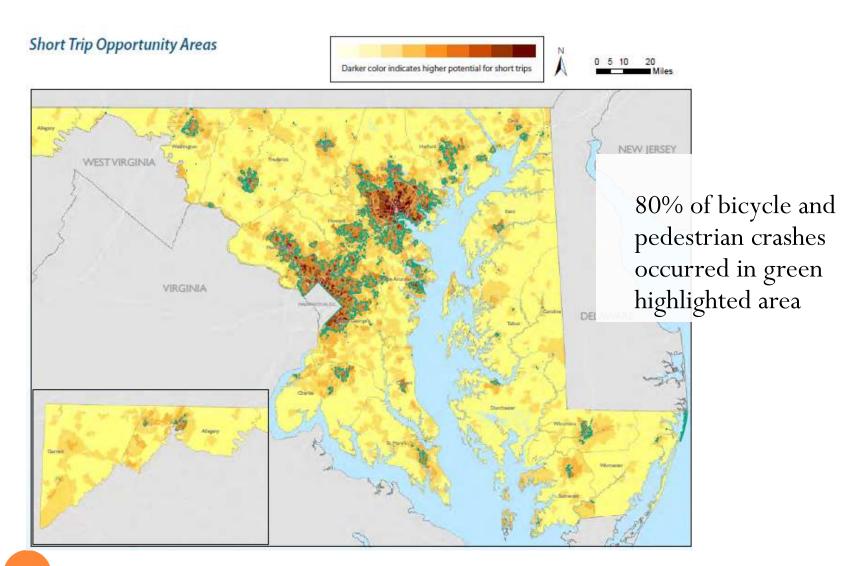
Recreational walking/biking

Higher speeds

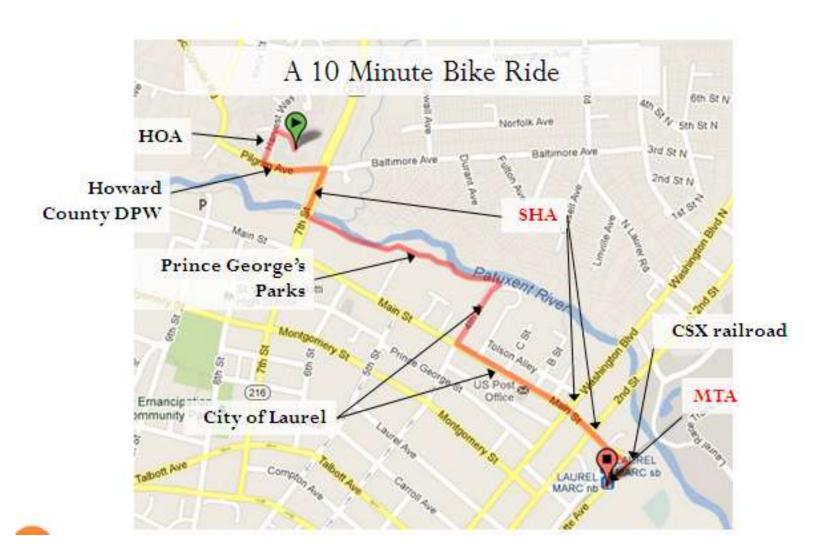
Longer trips



Not One Size Fits All



A connected network requires coordination





Project Development Process

Maryland Trail Funding Overview

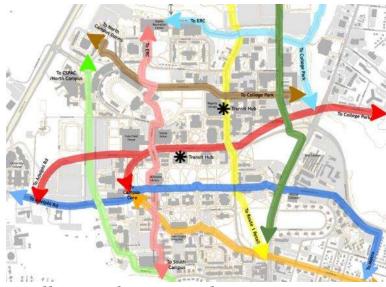
- \$15 million is available in reimbursable grant programs this year:
 - Transportation Alternatives \$11 Million
 - Safe Routes to School
 - Federal Lands Access Program \$500,000
 - Bikeways \$2.3 Million
 - Recreational Trails \$1.1 Million
- Other funding sources
 - Maryland Heritage Areas Program (MDP)
 - Program Open Space (DNR)
 - Community Legacy (DHCD)
 - Building Blocks, Green Streets (EPA)
 - TIGER (US DOT)

Project Development Process Overview

	TA	SRTS	FLAP	Bikeways	RTP
Develop concept					
Include in local plans and priorities					
Build support and partnerships, secure funding					
Refine the concept				X	
Secure Right of Way					
Design	X	X	X	X	
Permitting	X	X	X	X	X
Construct	X	X	X	X	X
Maintain					X
Educate and Promote		X		X	X

Develop Concept

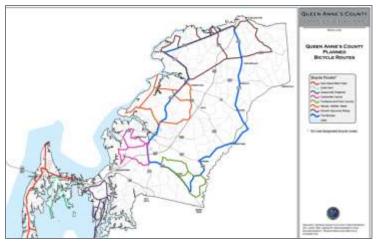
- Identify a need or opportunity
 - Consider gaps and access to destinations (schools, main streets, jobs, transit, parks, etc.)
 - Consider connections to:
 - Nearby trails
 - Existing bike and ped network
 - Consider available right-of-way
- Begin community outreach to determine support for the concept



College Park Master Plan Concepts

Include in Local Plans

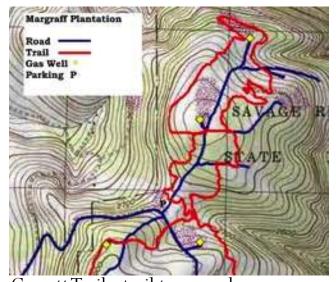
- Build community support and awareness
- Demonstrate support from the community and elected officials.
- Inclusion in adopted plans is critical for access to certain funding sources and developer contributions



Queen Anne's Comprehensive Plan, planned bike routes

Refine the Concept

- Preliminary technical work:
 - natural resource and utility impacts, physical barriers
 - Right-of-way
 - Consider alternatives
 - Ownership and maintenance
 - Incorporate community feedback
 - Understand permitting and design requirements
 - Develop preliminary cost estimate and schedule



Garrett Trails, trail topography

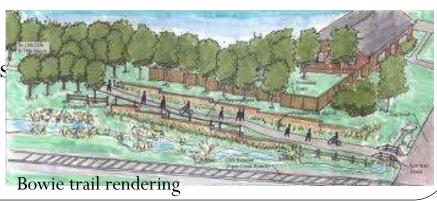


Gazette, Rhode Island Trolley Trail information

Build Support and Partnerships

- Describe project benefits
- Create and disseminate informational materials
- Determine roles for advancing the project
- Reach out to:
 - Community members and organizations
 - Advocacy groups and non-profits
 - Local elected officials
 - Local and State staff
 - Property owners and developers
 - Local businesses





Acquire Right of Way

- Include property needed for:
 - Construction staging and access
 - Drainage and stormwater management
 - Slope stabilization
 - Landscaping, signage, amenities, etc.
- If federal funds are used, acquisition must be conducted in conformance with the Uniform Relocation and Real Property Acquisition Act (Public Law 91-646).

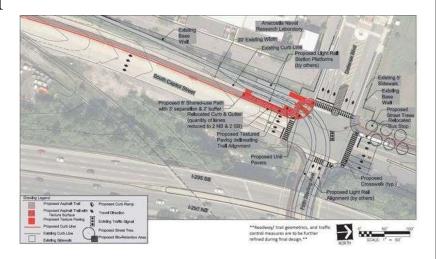


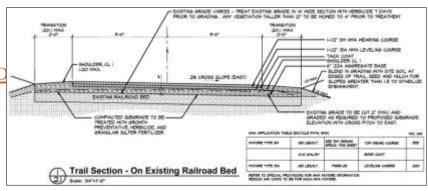
Secure Funding

- The focus of today's workshop!
- Consult with potential funders early
- Design can be very costly, but securing qualified, professional design services may avoid delays later on
- Be creative and combine multiple funding sources
 - Local funds
 - State/Federal transportation funds
 - Other State/Federal funds
 - Developer contributions
 - Local business contributions
 - Tax increment financing
 - Philanthropy and non-profit groups
 - Time and materials donations

Design & Permit

- Most projects require professional design services
- Key reviews generally occur at 30%, 65%, 90% and final design.
- Local, State and Federal permits may be needed, and some require at least 1 year to secure.
 - More information:
 http://www.mde.state.md.us/programs/permits/Pages/index.aspx





Construct

- Follow procurement requirements and timelines
- Ensure proper construction management, oversight and inspection
- If federal funds are used, labor requirements apply
- Be sure volunteers are appropriately trained and supervised
- Keep community members and abutting property owners informed about construction schedules, maintenance of traffic, and potential disturbances



DNR trail construction

Enjoy and Maintain

- Advertise and celebrate opening
- Ongoing maintenance
 - Landscaping
 - Trash clean-up
 - Security patrols
 - Clean up after storm events
 - Periodic repairs
 - Graffiti removal





Maryland Bikeways Program



Bikeways Program Overview

- Program Goals:
 - Make **bicycling** a true **transportation option** in Maryland
 - Maximize bicycle access to destinations (schools, transit, work, shopping, recreation, etc.)
 - Act quickly
- State-funded reimbursable grant program
- Eligible applicants: Government agencies (county, municipal, state, MPOs, RPOs, transit agencies and federal public lands agencies)
 - Can partner and pass-through funds to non-government partners
- Approximately **\$2.3 million available** for FY16 awards

Project Types

Minor Retrofit

- Up to \$100,000, no matching funds required in some cases
- Bicycle route signing, striping, sharrows, drainage grate replacement, bike racks, short trail extensions
- Can be located on local roads, state roads, or trails

Design

- Preliminary through final design work
- Feasibility assessments may address preferred alignment, environmental review, right-of-way issues, ADA, local support, cost estimates.

Major Construction

- Trails, shared-use paths, cycletracks
- Usually combined with federal funding sources, such as Transportation Alternatives and Recreational Trails

Bikeways Priority Projects

- Enhance bicycle access to or within:
 - Rail transit station or major bus hub
 - "Missing Link" in State Trails Plan
 - Sustainable Community Area
 - Maryland Main Street
 - Census tract(s) at or below 60% of Area Median Income
 - Major institution campus
 - Central business district
 - Major tourism site
- 80% to 100% funding

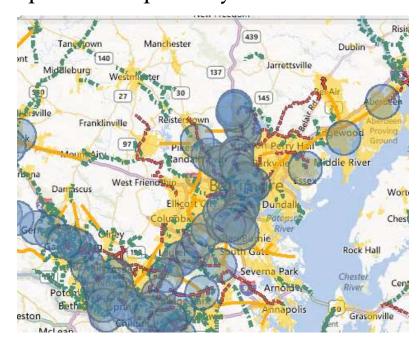
Other Eligible Projects

- Enhance bicycle access for:
 - Priority Funding Area (PFA)
 - 3 miles of a rail transit station or major bus hub
 - Projects identified in the State Trails Plan

• Project included in the annual transportation priority letter

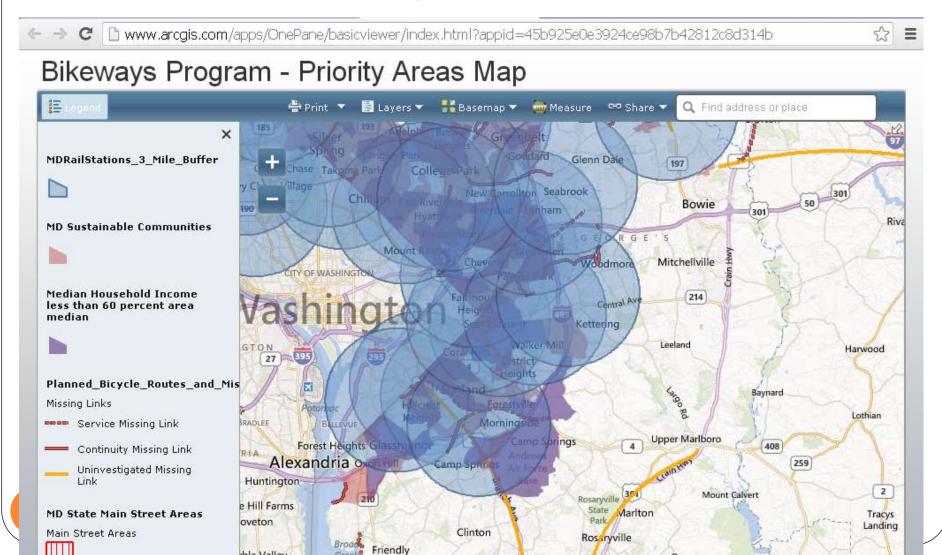
submitted to MDOT

• 50% funding

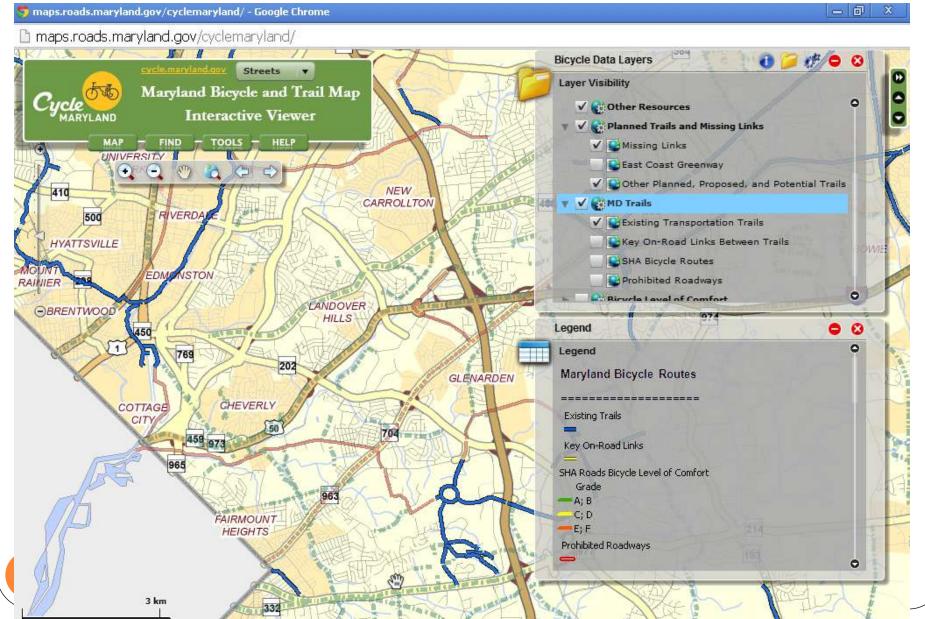


Online maps of these areas

Access via cycle.Maryland.gov



State Trails Plan



Projects that are not eligible

- Recreational route wayfinding
- Mountain bike trails or recreational loop trails
- Print or online maps
- Projects outside PFA that are not part of the State Trails
 Plan
- Sidewalks
- Education programs, brochures and events*

Matching Funds

Project Type	Bikeways Priority Project	Other Eligible Project	
Minor Retrofit	100%	50%	
Design	80%	50%	
Major Construction	80%	50%	

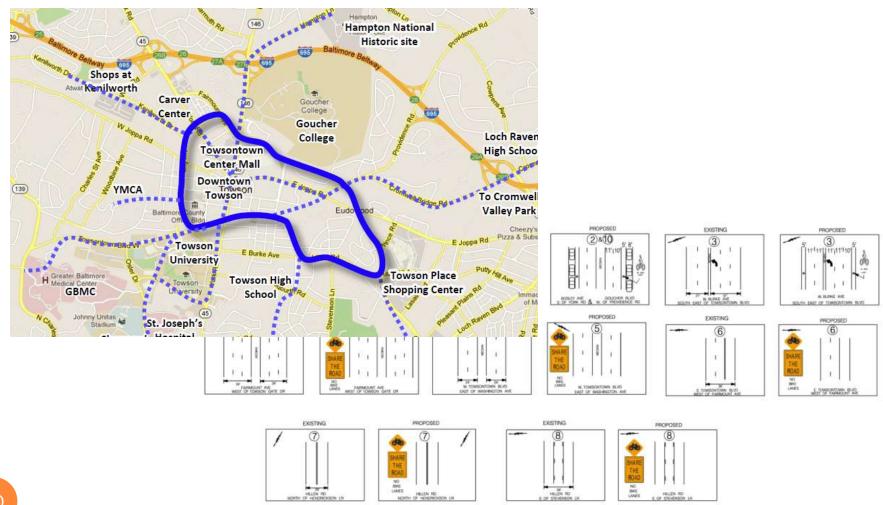
- Matching funds can include:
 - Federal transportation funds (eg. Transportation Alternatives, Recreational Trails)
 - Other Federal funds (eg. NFWF)
 - Non-transportation state funds (eg. Community Legacy)
 - Local funds
 - Private and non-profit contributions
 - Funds expended to advance the project no more than 24 months before the application deadline

Eligible Expenditures

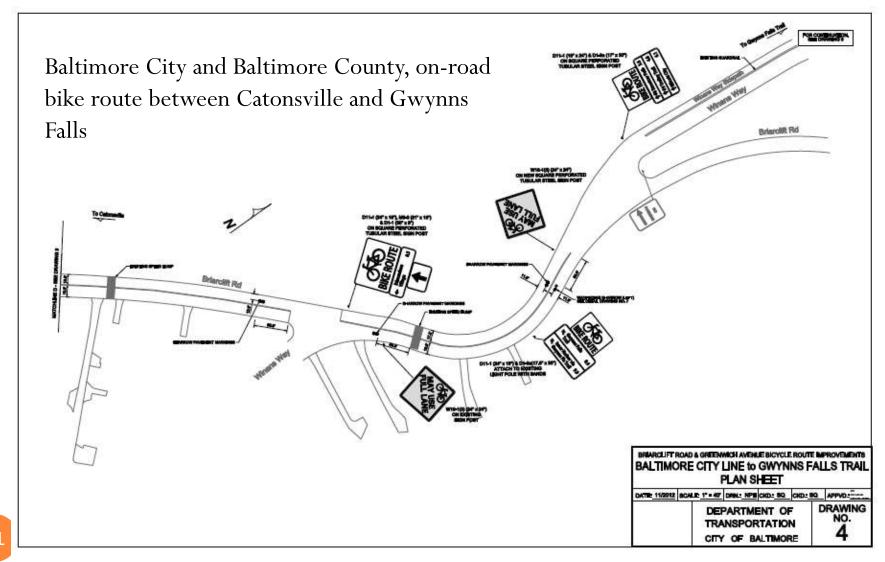
- Eligible expenditures include:
 - Contracted design and construction services
 - Materials, signs, pavement markings, bike racks, benches
 - Up to 10% toward educational and promotional materials
- Regular staff time may be counted as match, but may not be reimbursed
- Grant agreement must be executed before any reimbursable expenses are incurred

Minor Retrofit

Towson bike "beltway", phases 1 and 2

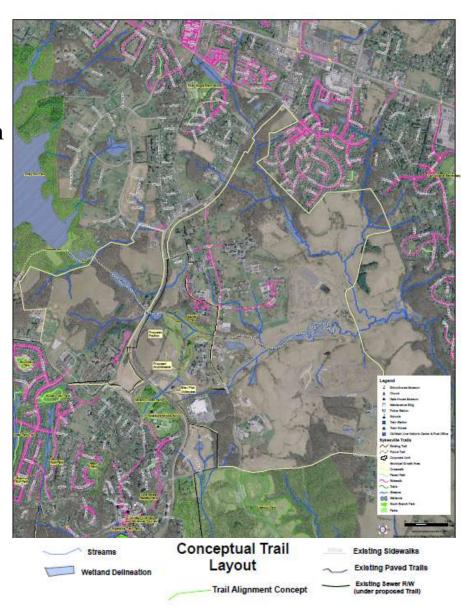


Minor Retrofit



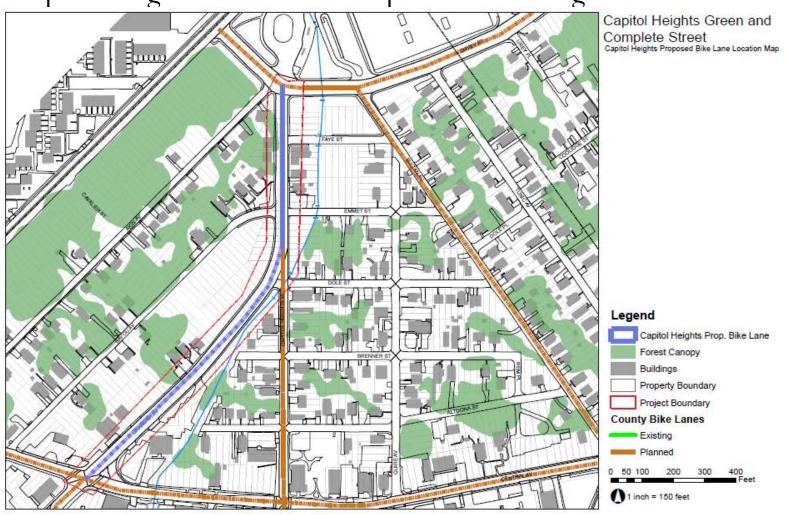
Design

Carroll County Freedom Trail alignment



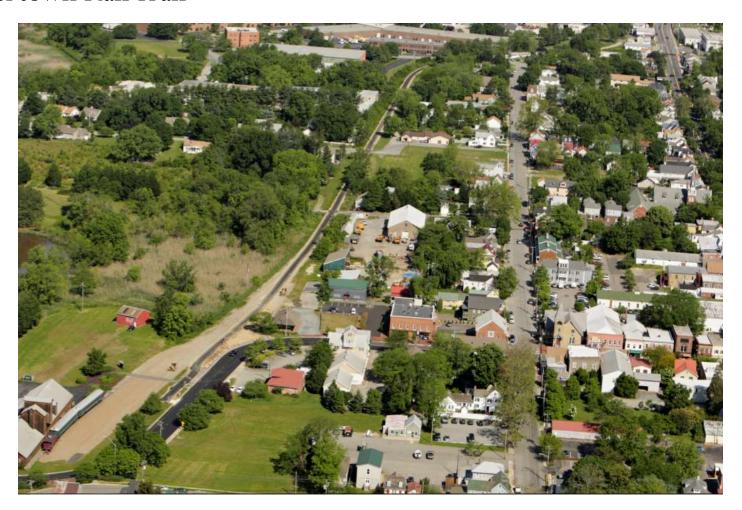
Design

Capitol Heights Green and Complete Street design



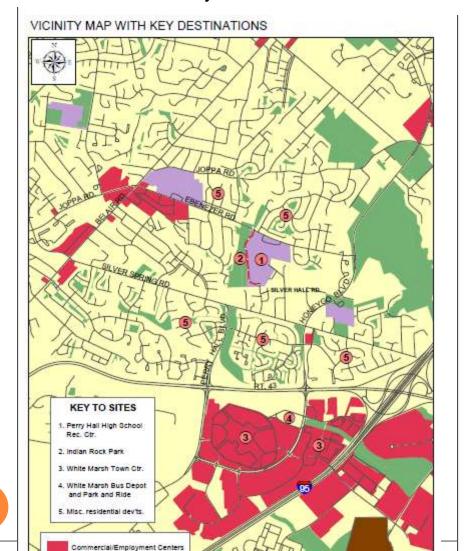
Construction

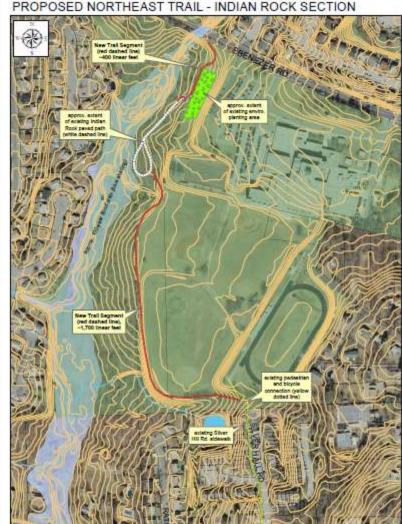
Chestertown Rail Trail



Construction

Baltimore County, Indian Rock Trail





What you Need to Apply

- Eligible project sponsor and staffing/contracting plan
- Scaled project area map showing project location, existing bicycle facilities and destinations
- Secured ROW required for retrofit and construction projects
- Project description and status
- Proposed workplan and timeline
- Cost estimate prepared by qualified engineer or experienced professional
- Project ownership, maintenance and management commitment

Typical Timeline

- May Submit Application
- **September 2015** Grant awards announced
- October Grantees submit proposed schedule/workplan
- Before Sept 2017 Complete project and submit for reimbursement
 - Quarterly schedule updates
 - Execute Grant Agreement
 - Submit design plans for MDOT review and address comments
 - Finalize design
 - Procure under local procedures, no state review
 - Manage and inspect design/construction/implementation
 - Submit reimbursement request with invoices to document expenditures
 - Submit final report with photos, design docs, and feedback

Grantee Expectations

- Upon award:
 - Submit project work plan/schedule
 - Execute a Grant Agreement provided by MDOT (Nov-March)
- Project Management:
 - Manage public involvement
 - Submit design plans for MDOT review, address comments and finalize design
 - Secure needed permits
 - Procure under local procedures, no state review
 - Oversee contractors and consultants
 - Maintain financial records
 - Submit quarterly schedule updates
 - Manage and inspect design/construction/implementation
 - Invoice MDOT
 - Submit final report with photos, design docs, and feedback
- Complete project with 24 months of grant award

Design Guidelines

- 2012 AASHTO Bicycle Design Guidelines
- Maryland MUTCD
- SHA Bicycle Policy and Design Guidelines
- ANPRM Shared Use Path Accessibility
- APBP bicycle parking guidelines
- NACTO Bikeway Design Guide
- Facility owner ultimately responsible for design approval

- 5' bike lanes
- -Trail width (10' minimum, 11' preferred, 8' only in constrained areas)
- Sharrow placement
- Intersection treatments
- Warning and wayfinding signs

FAQs

- Do Federal procurement, wage rates, etc apply?
 - No. Unless other grant funds using federal dollars are being used for the project.
- Can a bikeways project combine design and construction?
 - Yes, as long as it is completed in the 2-year timeframe.
- Is staff time eligible for reimbursement?
 - No, but it can count as match
- What design standards apply?
 - MDOT reviews and expects consistency with national guidance. Pay particular attention to intersections!
- What if a project involves SHA right-of-way?
 - An SHA access permit will be needed, involving review and approval by the SHA District office. SHA's bicycle policy and guidelines must be followed.

Questions?

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Maryland Department of Transportation
410-865-1304

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Funding application and program information available at:

www.cycle.maryland.gov

